

# ETORB2

## TURBIDITY PROBE

The **turbidity** level of the water can negatively affect the correct functioning of a plant. **ETORB2** is the EMEC most reliable and accurate solution to monitor water turbidity. Easy to install and maintain, ETORB2 is a self-cleaning probe designed to guarantee immediate and long-lasting use in combination with EMEC control instruments.



### Range

Nephelometric measurement with range 0-4000

### Measurement

LED with sapphire optic: 1 emitter and 2 reading LEDs placed at 90° with respect to the light beam emitted

### Compensation

The measurement is not affected by any external light

### Cleaning

Absence of mechanical parts that can wear: cleaning kit with controlled jet (1 bar) of water / detergent

### Standard

It complies with the international standard ISO 7027

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**EMEC**

# ETORB2

ETORB2 is able to perform an extremely precise **nephelometric measurement**, between 0 and 4000 NTU. The detection of the light diffused by the particles in suspension in the water occurs through 3 LEDs with **sapphire** optics: one emitter LED and 2 reading LEDs positioned at 90° with respect to the infrared light emitted. Thanks to a **compensation** system, the measurement is not affected by the presence of external light.

ETORB2 does not require any configuration or calibration and includes a cleaning system without mechanical parts that can wear out. With the **cleaning kit** (which includes a filter, a pressure regulator and a motorized valve) you get a controlled jet (1 bar) of water and/or detergent that maintains the efficiency of the sensors over time: continuous and reliable monitoring of water turbidity is essential to have accurate historical data and to keep track of trends and possible alterations.

The accuracy and reliability of the measurement are further guaranteed by compliance with the turbidity determination techniques established by the international standard **ISO 7027:1999**.

The ETORB2 probe is also available as an immersion probe (ETORB-IM), while the NPED-E2 probe holder is also available in the NPED-E2-EV version equipped with a motorized water drain valve.

## Technical Specifications

- Measurement range: 0/4000 NTU
- Max measurement error:  $\pm 5\%$  on the value read
- Repeatability:  $< 2\%$  on the value read
- Nephelometric measurement with diffused light at 90° NIR
- Operating temperature: 0/+40° C (32/104° F)
- Max probe cleaning pressure: 1 bar (14.5 PSI)
- Maximum working pressure: 2 bar (29 PSI)
- Connector type G1
- Cable length: 5 mt
- PVC body
- Sapphire optical sensor
- Temperature sensor
- Factory calibrated
- Housing in the probe holder easier

